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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/676,482	09/30/2003	Mario Blaum	HSJ920030187US1	7522
36023	23 7590 03/30/2005		EXAMINER	
HITACHI GLOBAL STORAGE TECHNOLOGIES, INC.			FIGUEROA, NATALIA	
SAN JOSE,	E ROAD, NHGB-0142 CA 95193		ART UNIT	PAPER NUMBER
•			2651	
			DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/676,482	BLAUM ET AL.			
		Examiner	Art Unit			
		Natalia Figueroa	2651			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1) 🗌	Responsive to communication(s) filed on	 ·				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	4) ☐ Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-17</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)	•				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) 🛛 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 09/30/2003.		ate latent Application (PTO-152)			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 30 September 2003 (09/30/2003) is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-17 of copending Application No. 10/676,632. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application is the apparatus to its corresponding method claimed in the copending application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Allowable Subject Matter

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4. Claims 1-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter:

RE claim 1, he prior art taken alone or in combination fails to teach the limitations in accordance with the embodiment of the present invention. The prior art of record, and in particular Blaum et al (USPN 6,288,861), fails to teach or suggest a disk drive comprising:

a rotatable disk having a plurality of tracks, each track having a plurality of timing sections comprising:

- i) a preamble represented as a preamble pattern of at least n bits; and
- ii) a timing mark (TM) f following said preamble, said TM being represented as a TM pattern of n bits, wherein said TM pattern has a pre-shift sliding distance d1 to the concatenation of said preamble pattern with said TM pattern, and has a post-shift sliding distance (d2; m) to said TM pattern being referred to as a (n, d1, d2, m) pattern, wherein said TM pattern satisfies an optimality condition selected from the group consisting of:

m is maximal given n, d1, and d2; d1 is maximal given n, d2, and m; d2 is maximal given n, d1, and m; and n is minimal given d1, d2, and m; and

a TM decoder, responsive to information read from said disk by said head, for detecting the TM patterns in said read information to thereby signal the presence of the timing sections, wherein said TM decoder searches for said TM patterns within a TM search window which

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nominally extends m bits past the last bit of the TM on the disk and at least n bits before the first

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bit of the TM on the disk.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The following documents are cited to further show the state of the art with respect to

timing marks.

a) Blaum et al (5,903,410): Discloses detection of servo timing marks.

b) Chainer et al (USPN 6,735,031): Discloses self-servo writing.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Natalia Figueroa whose telephone number is (571) 272-7554.

The examiner can normally be reached on Monday - Thursday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David R. Hudspeth can be reached on (571) 272-7843. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

NFM

DAVID HUDSPETH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600